FIG. 1

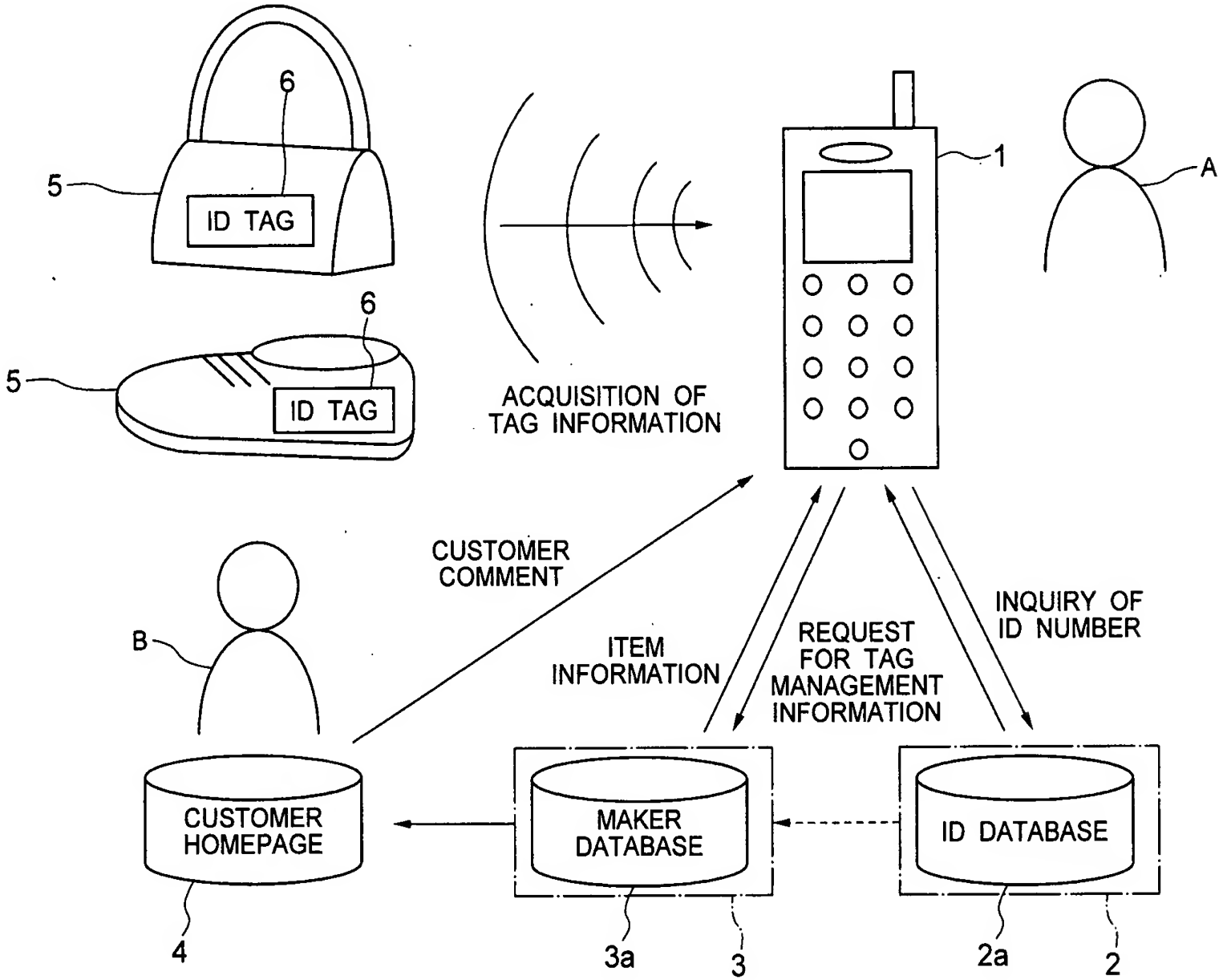

6
5
ID TAG
6
5
ID TAG
ACQUISITION OF
TAG INFORMATION
1
A
B
CUSTOMER
COMMENT
ITEM
INFORMATION
REQUEST
FOR TAG
MANAGEMENT
INFORMATION
INQUIRY OF
ID NUMBER
CUSTOMER
HOMEPAGE
MAKER
DATABASE
ID DATABASE
4
3a
3
2a
2

FIG. 2

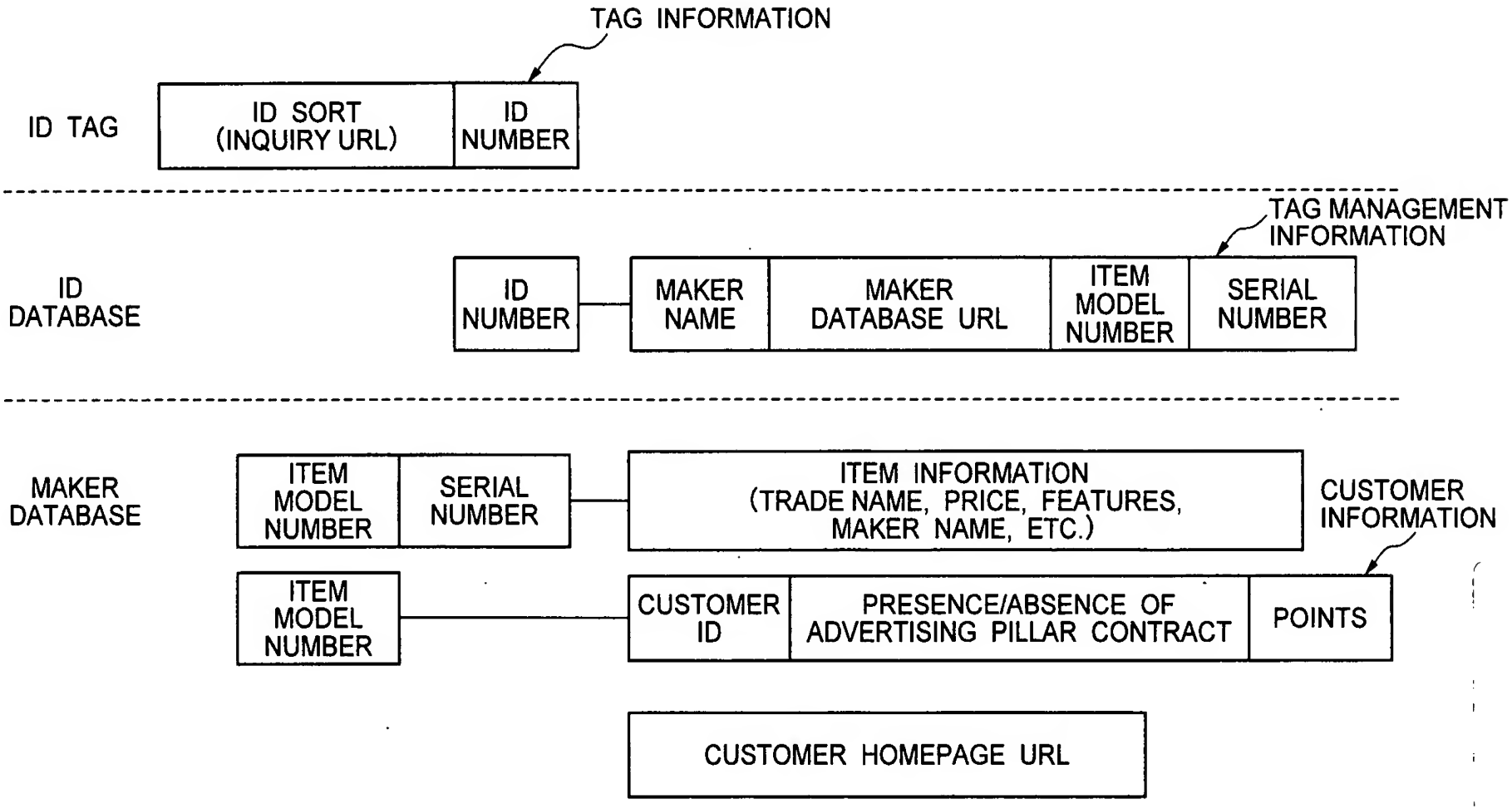

TAG INFORMATION
ID TAG
ID SORT (INQUIRY URL)
ID NUMBER
TAG MANAGEMENT INFORMATION
ID DATABASE
ID NUMBER
MAKER NAME
MAKER DATABASE URL
ITEM MODEL NUMBER
SERIAL NUMBER
MAKER DATABASE
ITEM MODEL NUMBER
SERIAL NUMBER
ITEM INFORMATION (TRADE NAME, PRICE, FEATURES, MAKER NAME, ETC.)
CUSTOMER INFORMATION
ITEM MODEL NUMBER
CUSTOMER ID
PRESENCE/ABSENCE OF ADVERTISING PILLAR CONTRACT
POINTS
CUSTOMER HOMEPAGE URL

FIG. 3

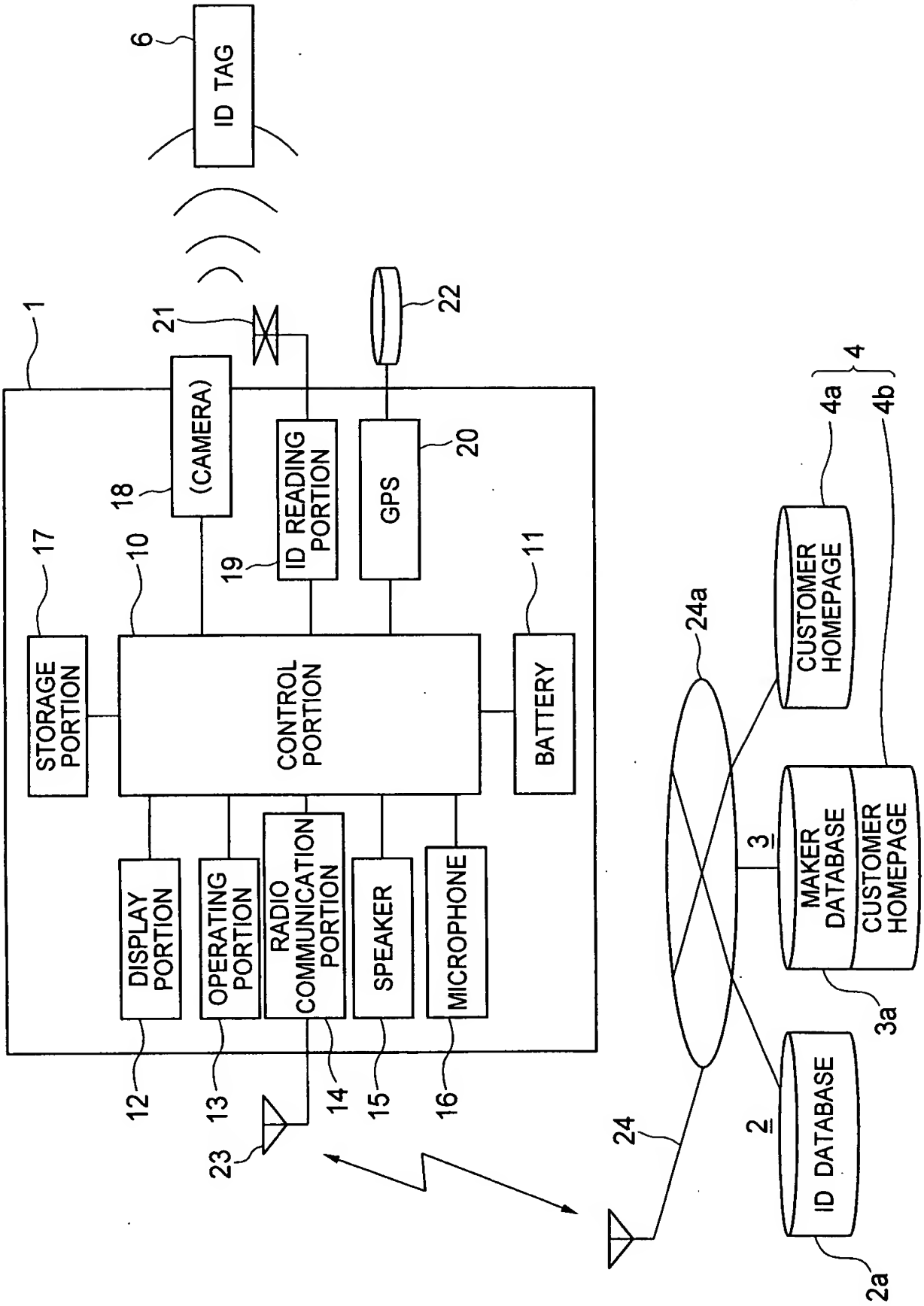

6
ID TAG
1
21
22
(CAMERA)
ID READING PORTION
GPS
18
19
20
17
10
11
STORAGE PORTION
CONTROL PORTION
BATTERY
DISPLAY PORTION
OPERATING PORTION
RADIO COMMUNICATION PORTION
SPEAKER
MICROPHONE
12
13
14
15
16
23
24
24a
4
4a
4b
CUSTOMER HOMEPAGE
3
MAKER DATABASE
CUSTOMER HOMEPAGE
3a
2
ID DATABASE
2a

FIG. 4A

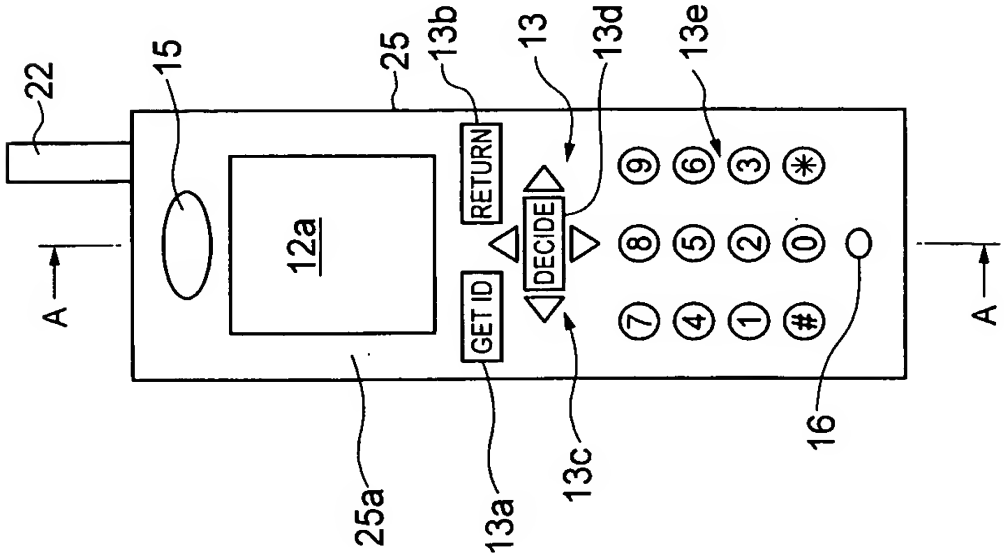


FIG. 4B

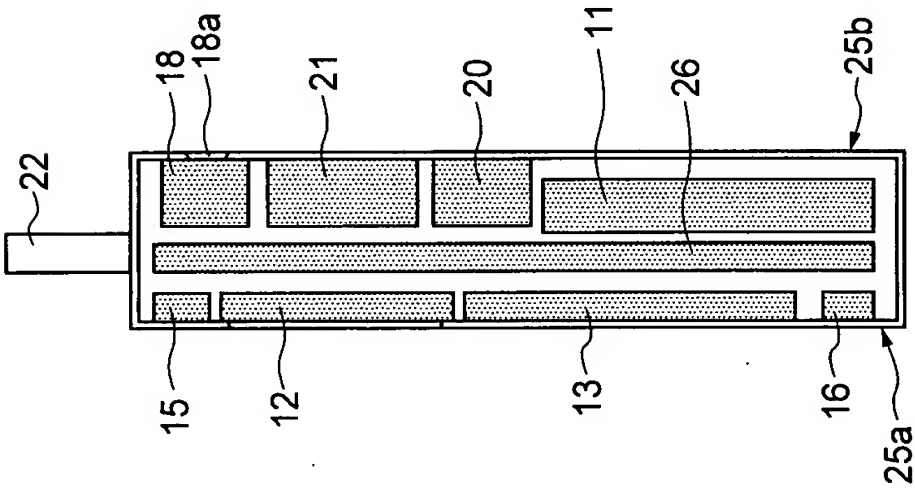


FIG. 4C

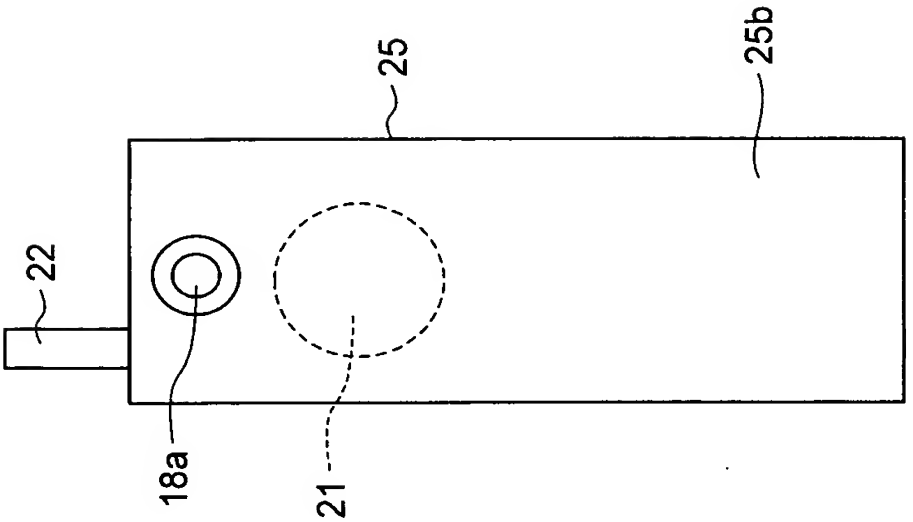


FIG. 5A

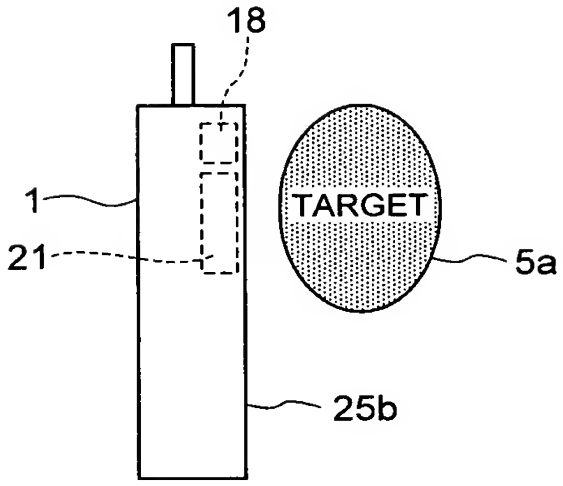
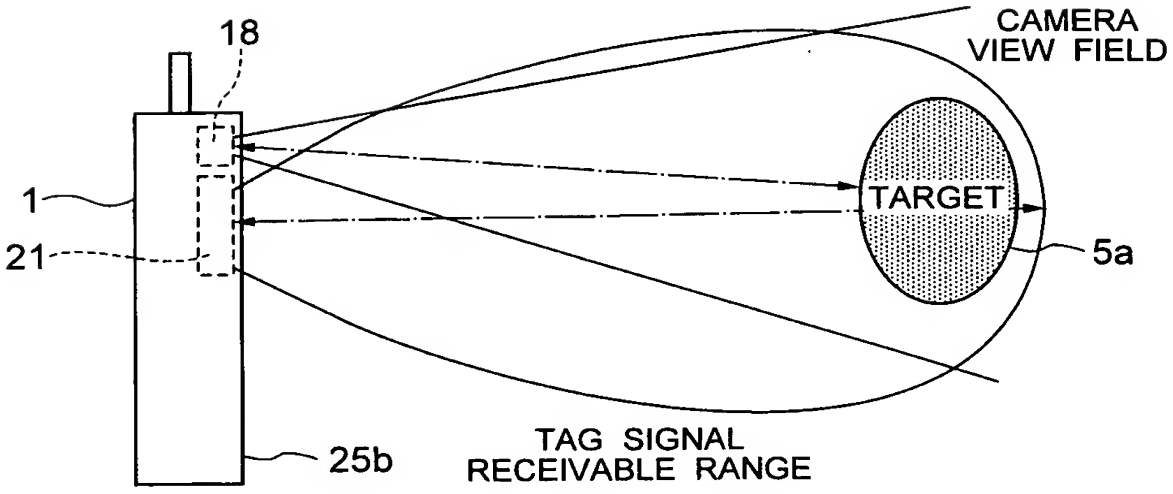

18
1
21
TARGET
5a
25b

FIG. 5B


18
CAMERA
VIEW FIELD
1
21
TARGET
5a
25b
TAG SIGNAL
RECEIVABLE RANGE

20020045807

FIG. 6

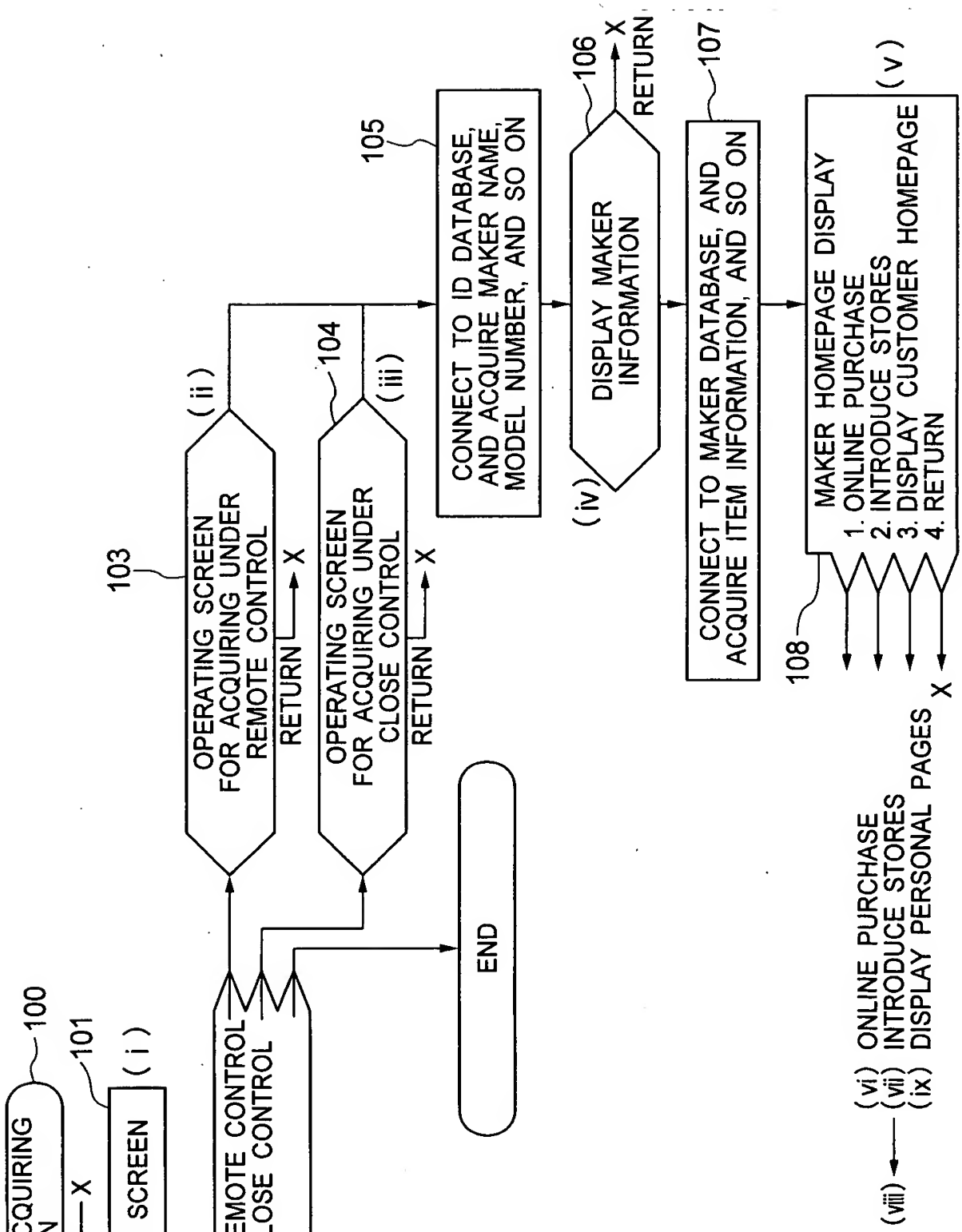
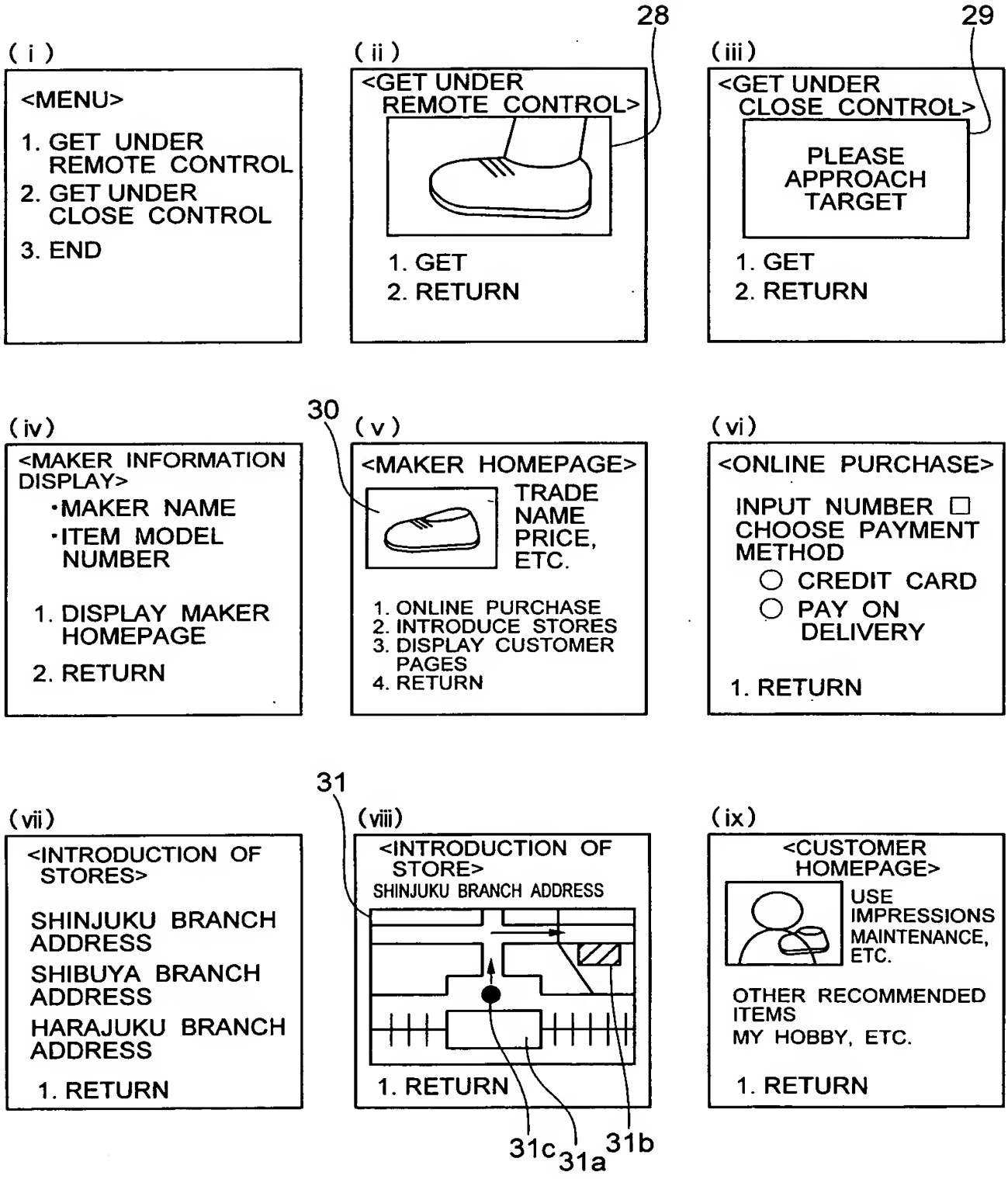
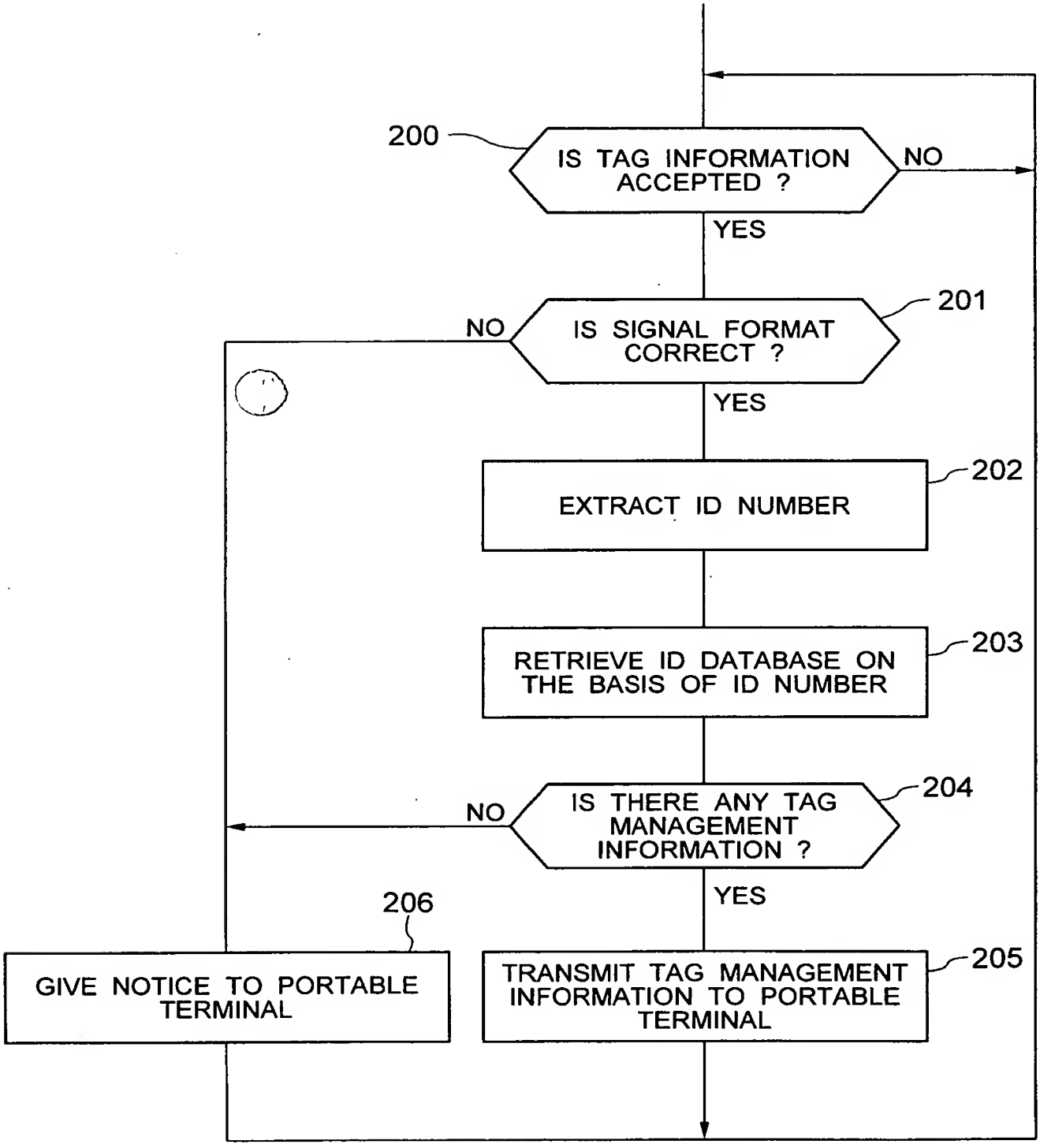


FIG. 7



Application Server

FIG. 8


200
IS TAG INFORMATION ACCEPTED ?
NO
YES
201
NO
IS SIGNAL FORMAT CORRECT ?
YES
202
EXTRACT ID NUMBER
203
RETRIEVE ID DATABASE ON THE BASIS OF ID NUMBER
204
NO
IS THERE ANY TAG MANAGEMENT INFORMATION ?
YES
206
GIVE NOTICE TO PORTABLE TERMINAL
205
TRANSMIT TAG MANAGEMENT INFORMATION TO PORTABLE TERMINAL

20020045007

FIG. 9A

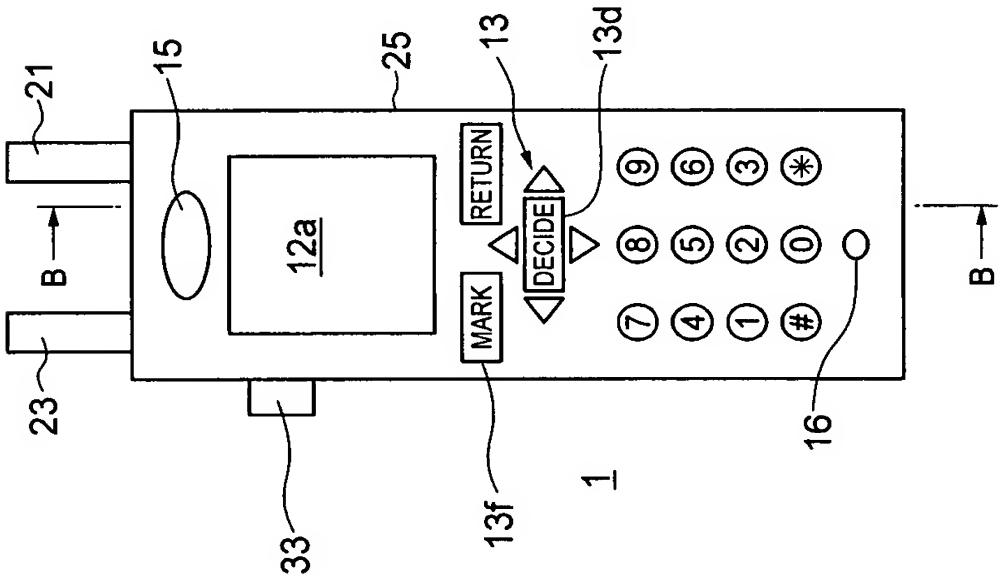


FIG. 9B

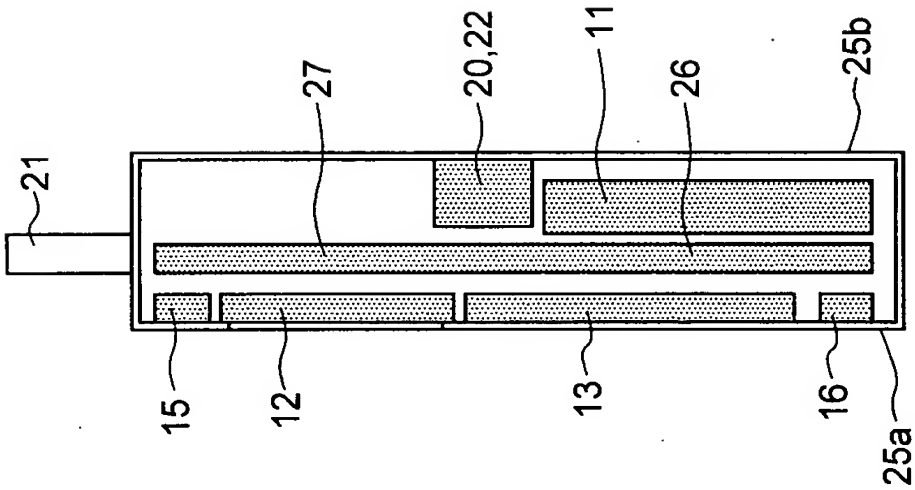


FIG. 10

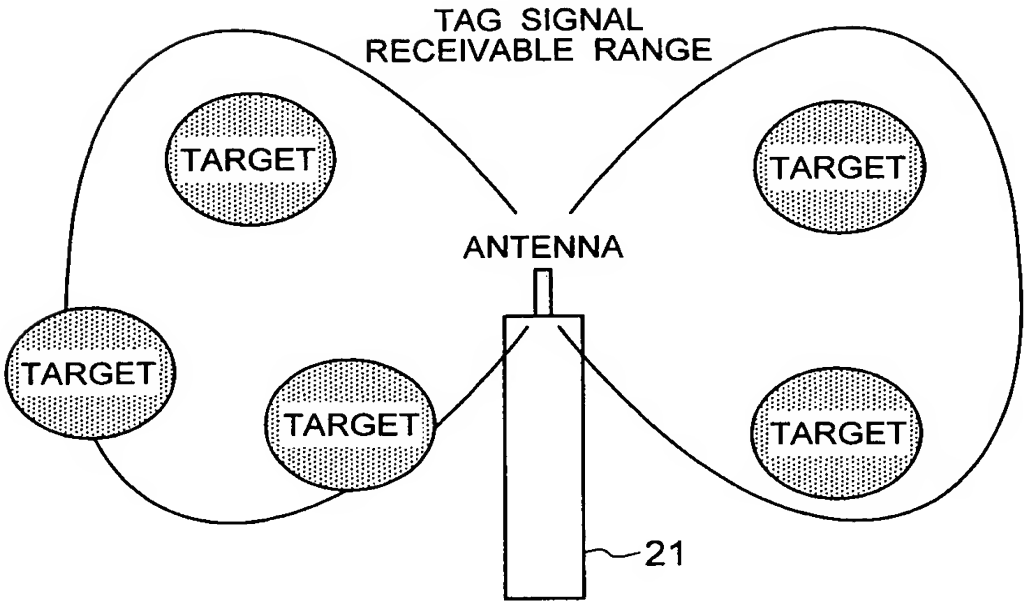


FIG. 11A

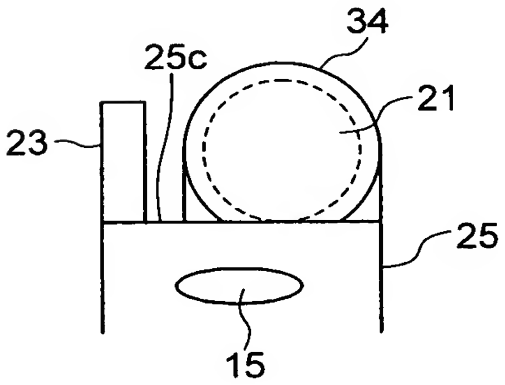


FIG. 11B

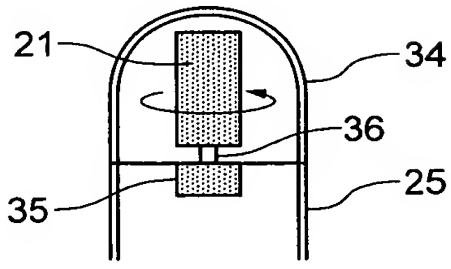


FIG. 12

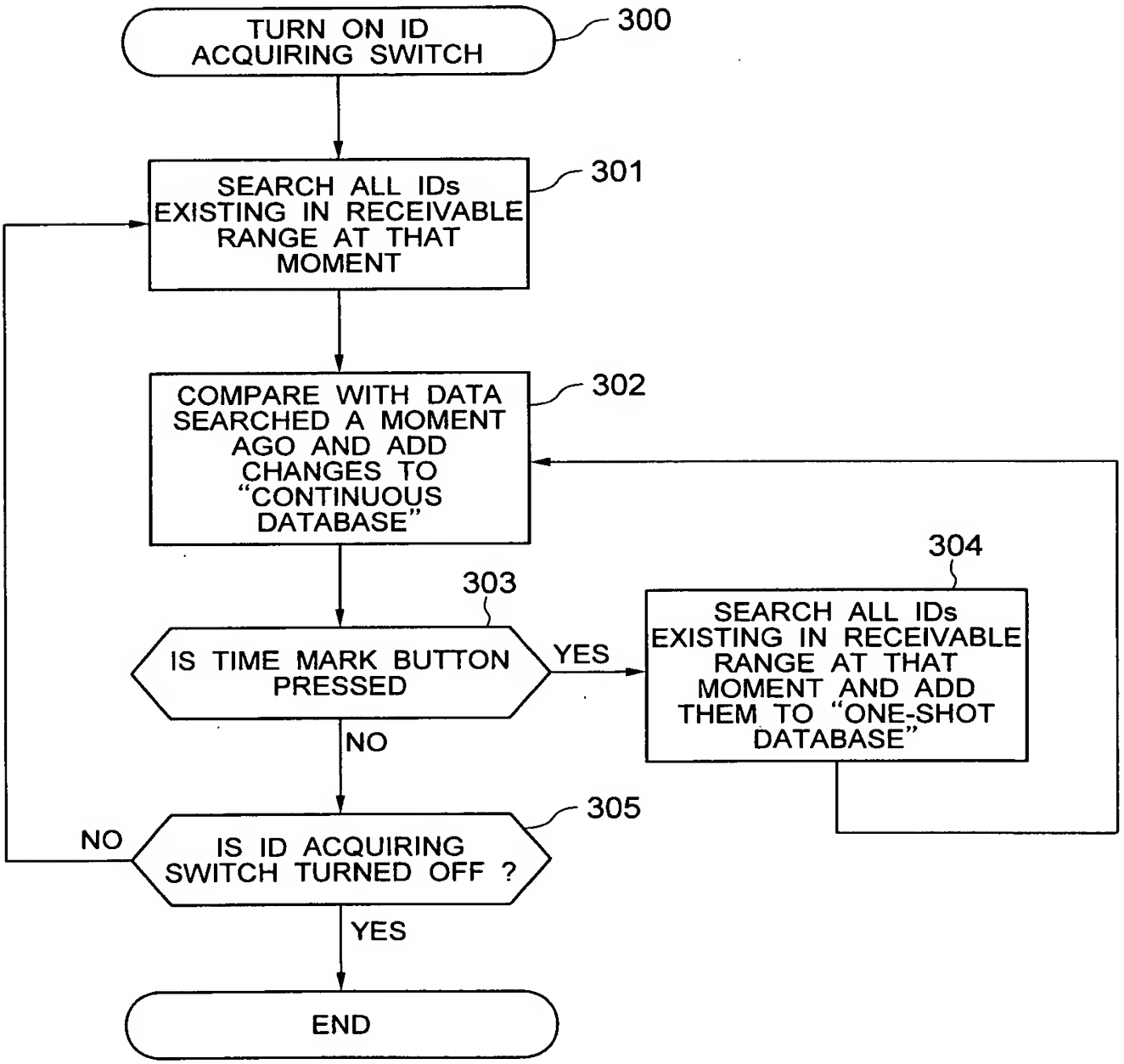

TURN ON ID ACQUIRING SWITCH
300
SEARCH ALL IDs EXISTING IN RECEIVABLE RANGE AT THAT MOMENT
301
COMPARE WITH DATA SEARCHED A MOMENT AGO AND ADD CHANGES TO "CONTINUOUS DATABASE"
302
303
IS TIME MARK BUTTON PRESSED
YES
304
SEARCH ALL IDs EXISTING IN RECEIVABLE RANGE AT THAT MOMENT AND ADD THEM TO "ONE-SHOT DATABASE"
NO
305
NO
IS ID ACQUIRING SWITCH TURNED OFF ?
YES
END

FIG. 13A

ID NUMBER	DETECTED DATE AND TIME		MISSING DATE AND TIME	
	DATE/TIME	PLACE	DATE/TIME	PLACE
H-1234567890	2001.10.30 AM10:23:12	EAST LONGITUDE 136.23.45 NORTH LATITUDE 35.34.56	2001.10.30 AM10:24:44	EAST LONGITUDE 136.23.45 NORTH LATITUDE 35.34.56
H-2345678901	2001.10.30 AM10:23:23	EAST LONGITUDE 136.23.45 NORTH LATITUDE 35.34.57	2001.10.30 AM10:24:55	EAST LONGITUDE 136.23.46 NORTH LATITUDE 35.34.57
H-3456789012	2001.10.30 AM10:24:34	EAST LONGITUDE 136.23.45 NORTH LATITUDE 35.34.58	2001.10.30 AM10:24:55	EAST LONGITUDE 136.23.47 NORTH LATITUDE 35.34.58
.	.	.	.	.
. . .	. . .	. . .	. . .	. . .

FIG. 13B

MARK DATE AND TIME	PLACE	ID NUMBER
2001.10.30 AM10:23.	EAST LONGITUDE 136.23.45 NORTH LATITUDE 35.34.56	H-1234567890
		H-2345678901
		H-3456789012
2001.10.31 PM08:33.	EAST LONGITUDE 136.22.42 NORTH LATITUDE 35.33.33	H-1111111111
		H-2222222222
		H-3333333333
		H-4444444444
.	.	.
. . .	. . .	. . .

FIG. 14

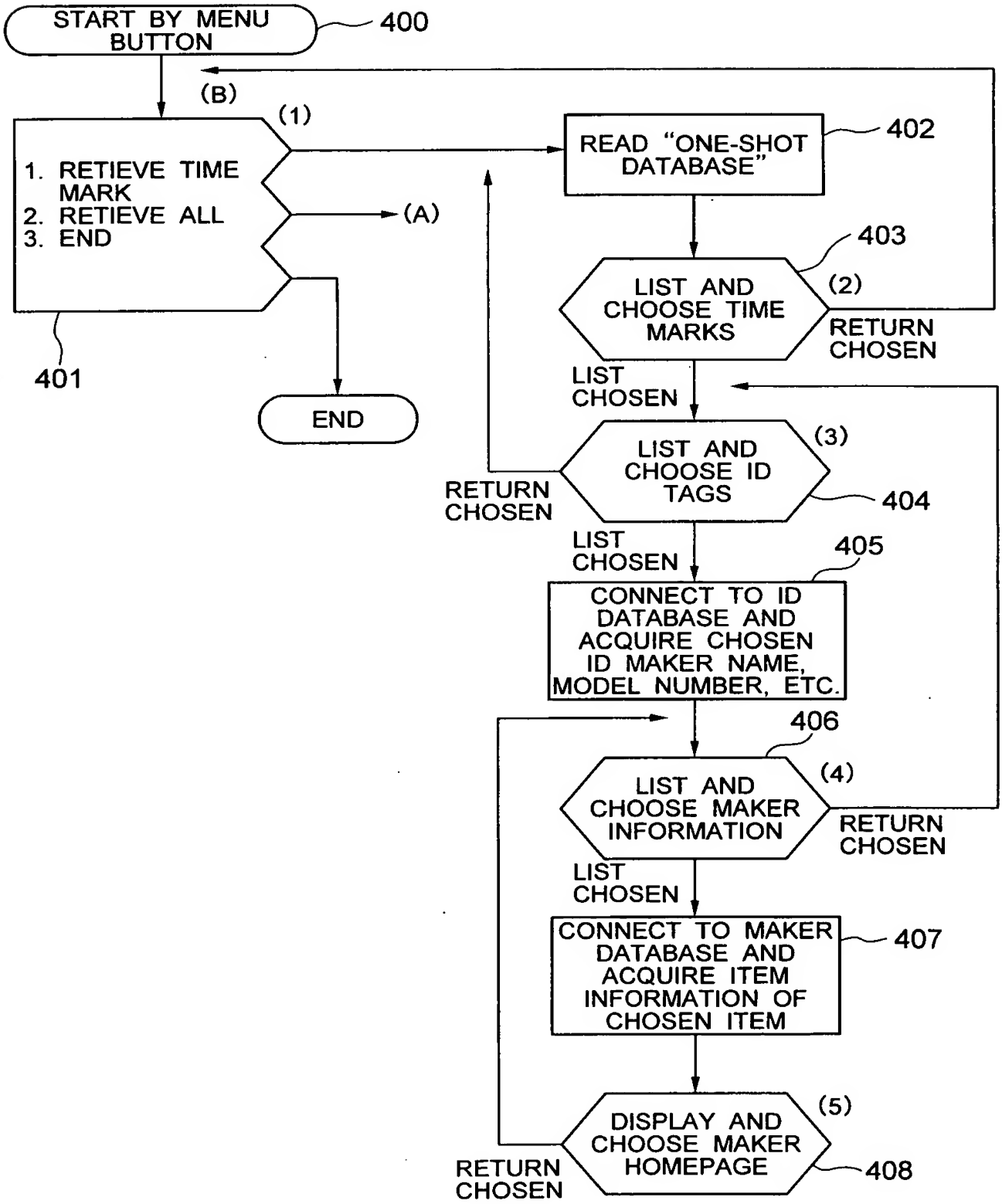

START BY MENU BUTTON
400
(B)
(1)
1. RETIEVE TIME MARK
2. RETIEVE ALL
3. END
(A)
401
END
READ "ONE-SHOT DATABASE"
402
LIST AND CHOOSE TIME MARKS
403
(2)
RETURN CHOSEN
LIST CHOSEN
LIST AND CHOOSE ID TAGS
(3)
404
RETURN CHOSEN
LIST CHOSEN
CONNECT TO ID DATABASE AND ACQUIRE CHOSEN ID MAKER NAME, MODEL NUMBER, ETC.
405
LIST AND CHOOSE MAKER INFORMATION
406
(4)
RETURN CHOSEN
LIST CHOSEN
CONNECT TO MAKER DATABASE AND ACQUIRE ITEM INFORMATION OF CHOSEN ITEM
407
DISPLAY AND CHOOSE MAKER HOMEPAGE
(5)
408
RETURN CHOSEN

FIG. 15

(1)

<MENU>

1. RETRIEVE TIME MARK
2. RETRIEVE ALL

⋮

0. END

(2)

<TIME MARK>

1. 11/16(FRI) 16:23
2. 11/15(THR) 09:44
3. 11/12(MON) 14:28
4. 11/12(MON) 14:23

0. RETURN

(3)

<ID TAG LIST>

1. H-1234567890
2. H-2345678901
3. H-3456789012
4.

0. RETURN

(4)

<MAKER INFORMATION DISPLAY>

1. MAKER NAME TRADE NAME
2. MAKER NAME TRADE NAME
3. MAKER NAME TRADE NAME

0. RETURN

(5)

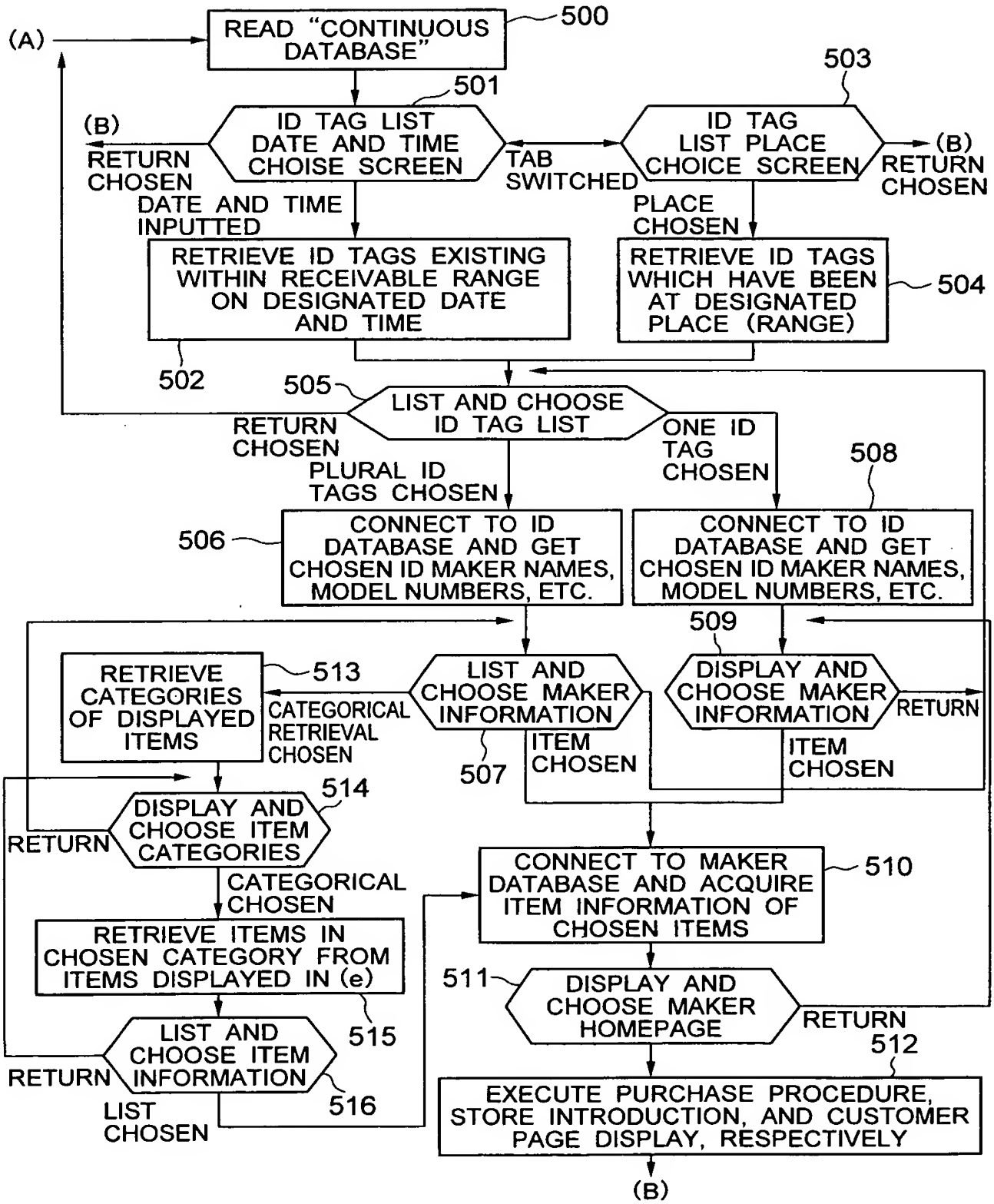
<MAKER HOMEPAGE>

TRADE NAME PRICE, ETC.

1. ONLINE PURCHASE
2. INTRODUCE STORES
3. DISPLAY CUSTOMER PAGES

0. RETURN

FIG. 16



20050240 A1 20051027

FIG. 17A

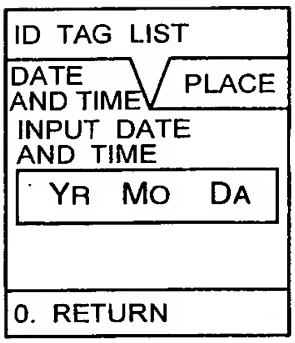


FIG. 17B

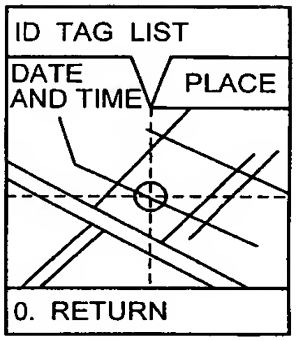


FIG. 17C

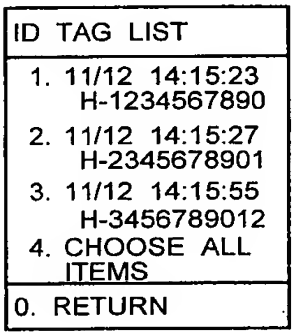


FIG. 17D

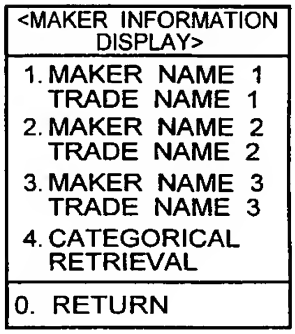


FIG. 17E

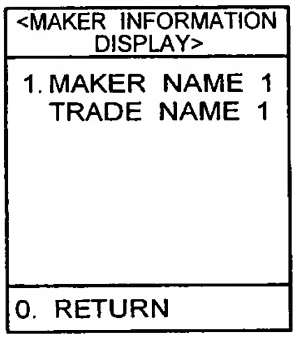


FIG. 17F

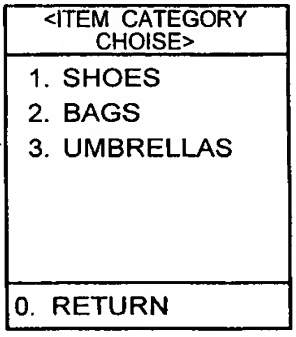


FIG. 17G

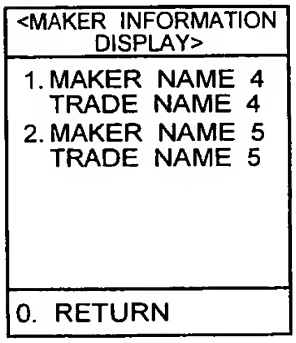
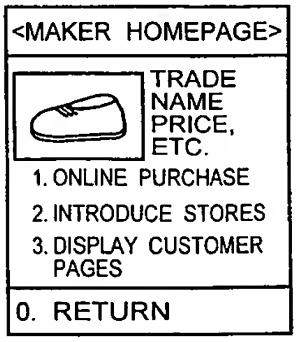


FIG. 17H



2552-2550 2552-2550

FIG. 18A

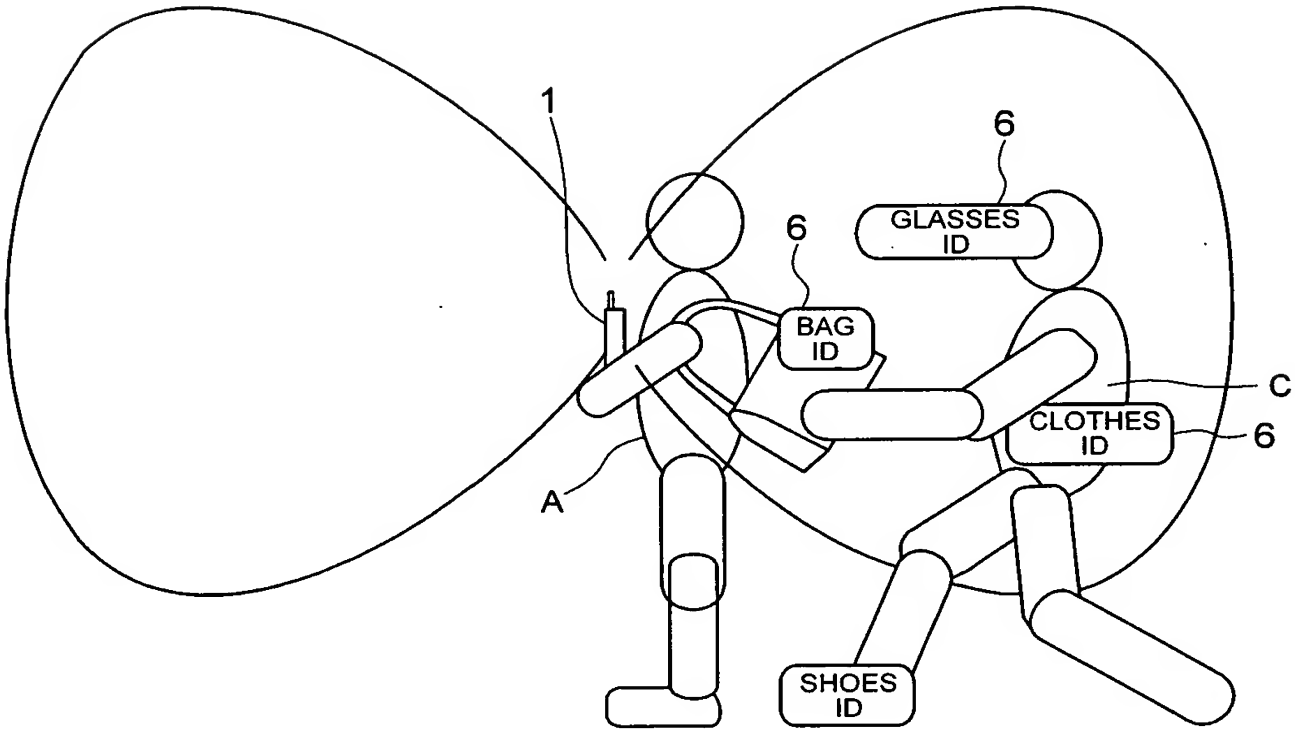
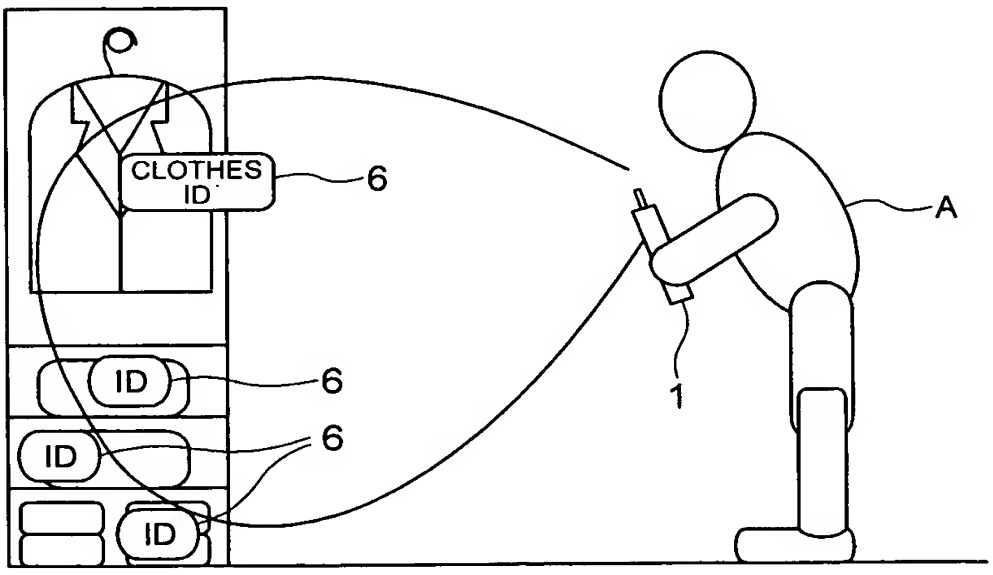



FIG. 18B